



APRIL 1986	FEATURES		
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	New characters for your C16 67	I	
	New characters for your C16.		
	# 7op Mon	Lo	
	Type in your pwn machine code monitor.		



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seemes are no conception.

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window, pldy and there is a familied solition of a large varies. O'Dongstown of the control of t

#### Touchline Mindshadow, Escoph Bill: Activision, 5/7

Knight Games, Hektogelide: Powlah

The Phantom of the Opera: John Rander Max Headroom: Quicksilva





MARRY MAS THE CITY DREED ON A

detachable full travel professional

Commoder (UK) III. 1 (Cores Sci

Touch Line Micronet 800: 8 Herbal, London School

### Generally Speaking

HACKERS BEWARE THERE IS NOW A



Touch Line

Database Publications: Europe House, 60

Computer Weekends



## Missives are are the budget solvere houses

The page where you tell us

Computing

Not so Esse Entre



Listings will be much easier enter with our new system

COMMODICE LISTINGS ARE RATHER ell known for the bordile linte black his that always abound. Unformately er graphers characters which are used to prement gapping and control characters in rest reposition very well and they are to difficult to find on the Commodition infloors.

## LISTINGS

If any characters are repeated renormanic still be followed by a name that standard is how many times a should enter the character. Any name of spaces sivet size will also represented in this farm. \$12.53(19) are supported to the con-

ne will also be ren or right 18 times umodore and \* 10 sace har 18 times bol what to pres

brackets for example (SANS) 16 shift A's 16 span half A's Sorebol sohat

(LET) John Selvings

III (CLEAR)

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bu Gremlin Graphics









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region and the next glowing lead his its advantages because to no form for fields, a man can one and he already had Hikkood fined of energy however, and

as the chained of energy frouvers, assocoming the current are well against. These particular of death must be entitled within the control of the control of the control of them. Market variety would bank to not and applicable his chained are entitled for the control of the control of the Not care he would request the chang all accrete which rape them even the control of the part that the control of the conent test because it is not the conent test because it is not the conplex test because it is not the conent test because it is not the conplex test because it is not the conplex test because it is not the conlection of the control of the con-

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I before that Greenith and Major. It have be been C15s reflections small, by, anyone who disapprept is invited to the shear of the shear

### THE FINAL CARTRIDGE

THE FIRST OUTSIDE OPERATING
SYSTEM FOR THE CBM 64 \*



#### This new operating system built in a cartridge does not use any memory and is always there

SHEN TUBBED - 6 street factor handling to tree intent serving.

APPE TUBBED - 11 forms franks, soon commences - compatible with standard below.

ADVANCED CENTERONICS INTENT. ADVANC

Communities graphics and summed cables improved the Science Science Science ECERTA SOURCE PARTITION. It for the property of the source of the French fail page and 1.5 and the stage for the source of the source source than passed on the source of the for administration of the Philade. So the Science Science Science Science Transferred to the source science of an electron of the source source science source science source source

BASIC 4.8 COMMANDS - No Disso Deare, Daywood, Calabop, etc. BASIC TOOLETT - with Juys, Renur Jord, Carp and Greyat, Find, Relp, Oldman. CONTRACTOR OF PARTY OF THE PART

RESET SWITCH, - results in murcharresets with all, needs to 16 year princing resets every protection program. ON-057 SMITCH - we hope you mean need that one.

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COMPUTERS Stephone 5276 : 81 16 71.

## DATA ERROR: LOCATE SANOTE (PY

P. Green reveals some techniques to make it easier for you to find and correct data errors.

MOST OF COS. AT MODE TOUR DIStributed by the control of the cost of the organism of the cost of the cost of the representation of the cost of the cost of the representation of the cost of the cost of the properties of the cost of the cost of the cost of prince through self-end between the cost of prince through self-end sends to oper early cost of the cost of th

others on the screen and require disferent starbrigum for even finding.

Basics

The first things to be checked as the comtraction of the common that the common that before the comname that before will not you great the cocounts the data leyers. In the case the event stap will influen pout that three are to many data there.

counts the data lyses to the cape the recommon the data lyses to the cape the recommon term of the cape the recomment of the cape the recomment of the cape the recomment OUT OF DATA ESPORT is a TORSTOCKED data early results a least of a least visit data early results a least of the cape the

plan the procedure.

FOR XMET CHOOLEFADA.

PORTMINSTER, ALCER COLLARIZE

In order to yet the required infor-

To sell tell you have made due to provide the control of the contr

nort Cats
sort Cats
e nese with which you can muke it
is depends on whether the class is
schine code, sprins, user defi

characters or schools memory, following sign are four the C64 four she also work for the Vic 28. Machine Code

I will sure with machine code data we in the most difficult to handle. These An occurrence place for multi-less conditions more A common place for multi-less conditions conditions and the membral will depend or press one copyrights. The results of depend or press one copyrights. The results of the first conditions are manifest to their the results for the membral manifest of their sections for the membral manifest in their conditions for the membral manifest in the results for the membral manifest in the results for the membral manifest in the condition for the first conditions and the condition for the membral manifest for the membral manifest

ren fre program and free had free monitor if in to hape I real file recensar to use a monitor which is located high in the memory and there had and are the program.

Sprites

Sprite data is one of the easiest to check suppositing it the sprins are not multicolour. The procedure is as follows: 1 frequently put a STOP command is

theclasm is OR.

It has the program

I have spelled to an -PCKCESSIGN a

4-bet spelle colour-PCKESSIGN a

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-PCKESSIGN 1

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where LOC is the start location divided 164. The can be obtained from the program.

The first applies should now appear to the program of the screen. I presume the program of the screen. I presume the program of the



K Otton and A Adams introduce you to the intricate world of computer communications.

## EXCHANGE

### PROBLEM SHOULD NOW

# POST KO, #:POST 44,40 2646 2479 :POST 12267,61469 147,2, 6,150,

ROSEAN, BOST SEMENATOR NA PRINT TELLEN, BOWERINGS RUM TWOS PROSEAN WILL

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2848+128181:570F 2828 MCST 1 2848 DATA 45,84,87,76,47,79, 77,47,86,45,16,5,1,142,8 FTA 32,000,255,107,107,16, ,167,568,2,72,507,255, ,0,32,517,2673 MTM 205,000,167,2,172, ,2,361,51,268,102,165, 90,2,7,001

ACTIVITED NEW PACES

ACTIVITED

Wasted Rates
The standard based rates awards 300/300, 1298/7 75/1200.
Auto Dialling

mally be tiped in on computer keyboard, modal then takes over does the runder out. So able to reddel if the numhard on try several to there stylen on.

o Answer

22.41 (4, 21.1); 72.11 (5) 72.11 (4) 72.11 (4) 73.11 (4) 74.11

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MATRIX

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NEXUS-1

OPERATED BY:

MATRIX OOMMUNICATION

SYSTEMS
SYSOP: KEN FARNEN
WELDOME TO THE MATRIX:
THIS IS NEXUS—I (MANCHESTER)
AUTHORISED USERS PLEASE LOGI
WITH YOUR NAME: AS PROMPTED.

FIRST NAME! MIKE
LAST NAME! ROWE
LAST NAME! ROWE
SEARCHING USER FILE.
CALLING PROM LONDON
STHIS CORRECT Y
ENTER YOUR PASSWORD.
MCS Histocress MIKE ROWE
Casting from LONDON
Your last time as use STU4485 12:11
You have read through reasoning \$255

Your last time on use 33/34/39 1211
You have read through reasons 02/35
Current last message is 85/63
You have clothed the system 17 times
there
you have colder exercise 13/39
You are colder exercise 13/39
You have no personal reasonages working
--Massice

Messages LOT all types
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GT11) ... Dynosen Functions:

1919 1819 42,73,13,13,73,31,46, 1719 1811 55,83,13,73,83,1,33,5,13, 73,43 85,837 73,23

k) asswer the telephone line and connect the computer.	2539 3979 23, 23, 23, 23, 23, 23, 23,	PRINCIPAL CORNE SENS	B.B.B.B.B.B.B.B.B.
When only one line is	12.22.12.22.22.22.22.22.	PRODREM: CORMS BEKZ	12, 12, 517
	12,42,522	CHARLES TO BUILDING	2216 5006 12,12,12,12,12,12,
and modern calls, a caller	1548 Dalla 42, 32, 32, 32, 33, 33, 46,	1706 DHR TO 1518640 B	12, 22, 12, 15, 5, 16, 12, 1, 16,
wahing only to speak will be	56,47,10,72,49,04,4,26,72,	SCHOOLSON SPECIAL	52,411
answered by the modern's high-pitched tone and will be		AVERT D	2229 3978 32, 22, 21, 48, 48, 47,
cut off after a set time if no		DESERBED REST ROCK THEN PR	56,47,49,72,51,12,5,14,5,
incoming carrier is detected.	77,7,14,21,46,46,46,46,46,46		47,598
	227	2898-1.1281/8707	2228 2616 6-21-12-12-47-15-
Self Test	2546 2678 44,78,56,72,72,72,	Sede MEST I	15,32,16,1,18,5,34,25,33,
	12,42,42,12,13,12,12,12,13	2949 Salta 12, 22, 23, 23, 23, 23, 22,	22,522
	12, 13, 449	22, 11, 12, 21, 11, 12, 21, 12,	2246 0459 22.22.22.22.22.22.
Normally, this is a neitch, push.	2576 2676 12,72,72,72,72,72,72	22,52,512	12, 12, 13, 13, 13, 13, 13, 13,
button or moveshie link which connects the transmit and	12, 12, 12, 22, 22, 22, 22, 22, 22,	2956 0479 32,12,12,12,12,12	11, 10, 11, 11, 10, 11, 10, 11, 12, 22, 117
receive circuits together giving	22,22,92	22, 52, 52, 12, 53, 52, 52, 52,	2258 2858 52, 52, 52, 52, 52, 52, 52, 52,
a loop back into the computer.	2588 DATA 32, 27, 32, 21, 12, 12,	12.12.52	22, 12, 52, 12, 11, 12, 11, 12,
	22,52,32,12,52,31,52,52,52	2848 2878 22.12.22.22.22.22.22.	32,12,52
receive the data you have seen			223, 12, 562 2238 545 32, 12, 52, 52, 52, 52, 52,
and deploy it on your screen.	12,42,511	32, 234	
This is a quark and easy way to	254 547 42, 12, 12, 12, 12, 12,	2019 2019 14,1,12,5,72,72,72,	11,12,13,11,12,11,12,13,
test the program and the RS232 interface.	12, 52, 31, 12, 52, 31, 52, 31,	22, 22, 52, 23, 22, 52, 53, 53,	12, 12, 112
	12, 13, 527	22,11,10,31,11,10,11,11,	2210 2010 12,12,11,12,31,12,
Indicator Lights	2009 NVM 12, 12, 12, 12, 12, 12, 12,		10, 51, 11, 50, 31, 52, 52, 51,
	12, 23, 12, 12, 23, 13, 12, 31, 12,	2886 \$478 31,12,72,33,53,53,	12,33,512
From marring all the modern.	22,72,512	17, 12, 11, 12, 12, 11, 12, 12,	2200 3014 32, 33, 32, 53, 32, 52,
	2618 2618 22, 22, 22, 22, 22, 22, 22,	12, 12, 117	12, 22, 12, 23, 23, 52, 32, 12,
	22,42,42,21,12,22,21,12,	2010 Date 12, 12, 21, 12, 22, 22,	12, 32,512
indicator lights, these can have	11,12,533	12, 22, 12, 10, 31, 12, 12, 12, 21,	2299 5614 52,77,1,7,18,15,52
a variety of purposes, the most	29:34 SAFE 23, 77, 52, 71, 52, 73,	12, 33, 412	\$3,5,39,10,45,19,45,17,12
transmit and receive data.	32, 10, 33, 12, 33, 32, 12, 33,	2189 3674 72, 72, 72, 72, 72, 72, 72,	
carrier OK and on line. Most of	32,52,512	10, 21, 10, 21, 17, 10, 21, 11,	2589 BAIA 32,72,52,33,52,52,
which are self explanatory.	2w34 14FH 32, 12, 21, 12, 23, 12,	23,32,512	33, 12, 53, 12, 52, 33, 52, 32,
	12, 12, 21, 12, 23, 22, 12, 23,	2118 BAIA 33, 22, 32, 33, 33, 32, 32,	
simply other 200/200-CCTTT V25	12, 62, 527		2218 SATH 31,12,31,12,53,12,
standard, originate only. A	2446 2008 42,42,42,42,42,42,42	33,37,512	12, 10, 21, 12, 12, 12, 12, 12, 12,
typical British Telecom modern TSA others these facilities, with	42, 42, 42, 42, 42, 42, 42, 42, 42, 42,	21.26 0415 12, 21, 12, 13, 12, 12, 12,	12,12,912
the philitims of self feet, it can	12, 42, 472	22, 17, 12, 21, 12, 22, 21, 12,	2228 2008 22, 52, 52, 52, 52, 52, 52,
	2459 2834 42,42,42,42,42,42,42,		13, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2
able with full instructions and	12, 41, 42, 42, 41, 42, 42, 42,	2124 0474 32,12,12,12,12,12,12	10, 11, 112
tally tested frees Distel	12,43,477	31, 10, 52, 31, 10, 31, 17, 12,	111# BETA 12, 11,12, 12,12,12,12
Electronics. Also required is an #5,132 inserface analysis from	THAN THE M.	21,12,50	31, 31, 31, 31, 31, 31, 31, 32,
Magin Decreetes		2144 0479 33.39,5,13.5,53.14	32,32,512
The most common basel	C.42,19,4,4,6,6,4,16,6,	19, 12, 22, 12, 12, 22, 21, 12, 22,	2588 5655 33, 32, 53, 33, 33, 33,
sano is 300/200. This refers to	224 202 24.4.4.4.4.4.15.4	22,781	22.22.22.22.22.22.22.22.22.22.
		2156 Data 22, 52, 22, 23, 23, 22, 23,	
extend and received and	76,6,6,6,6,6,15,6,175	12 22 12 12 22 21 12 12 12 12 12 12 12 1	22,52,502
therefore 1300/1208 is four times feder.	2588 SATA K. S. S. S. S. S. S. S. S. S.	22,22,92	2756 DACH 12,12,32,12,12,32,12
the 1300/75 is a spit band	8,0,0,0,0,0,0,0	21 M BATA 32, 22, 33, 32, 32, 32, 32,	11, 12, 11, 11, 12, 11, 12, 11,
runs where the board conducer	NAMA PROMITYCOUGHONOR*		11,12,117
	1P9147*(30MQ2	11,12,12,13,12,12,12,12,	2340 2000 22, 22, 22, 22, 22, 22, 22
wats for a toply which you	C045*+CHR41381+**CDM8 50	22,12,5:3	12, 11, 12, 12, 11, 12, 11, 12,
send at 75 bits per second. The	2**0885381**,8*	2136 5678 22,52,22,22,52,22,	32,32,512
reverse would apply where 35/1200 is shown.		12, 12, 11, 12, 11, 11, 12, 11,	2279 8414 52,11,52,12,53,53
75/1208 is shown. As the 1200/1200 basel rate	8 18 ABOVE LINE TO ,1 IF	12,32,412	11,11,12,11,12,12,12,12,
As the 1200/1200 based rate is more prese to data consup-		1189 NAW 52' 15' 15' 15' 17'	22,22,52
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LABBOR, Oc. receiving your crew under an ultrafact GALACTIC ATTRCK and receiving best to S Steller Brigation . A bate St. Fareduce St. on March S Section

Runescaster reveals the basic skills of adventuring and worms his way into some new software.

MYSEAL PEOPLE HART WEITTIN IN 11 see that have been given adventures to do not know what to do with them? I'b me seem strange to register readers of this column but do you remember has you got on with the first adventure yo ever attempted?

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you have to use TAMMIN! SCAECH or 1000x? Can you SCHMIN a bench or do you have to still ON 10.

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